2003 GMC Sierra Denali, Yukon Denali/Yukon Denali XL Navigation System

Overview 1-1
Overview 1-2
Features and Controls 2-1
Features and Controls 2-2
Navigation Audio System 3-1
Navigation Audio System 3-2
Index 1

GENERAL MOTORS, GM and the GM Emblem, GMC, the GMC Emblem are registered trademarks and the names Sierra Denali, Yukon Denali/Yukon XL Denali are trademarks of General Motors Corporation.

This supplement includes the latest information available at the time it was printed. We reserve the right to make changes in the product after that time without notice.

Please keep this supplement with the owner's manual in your vehicle, so it will be there if you ever need it while you're on the road. If you sell your vehicle, leave this owner's manual supplement and the owner's manual with the vehicle.

Litho in U.S.A.
Part No. 15192792 A First Edition

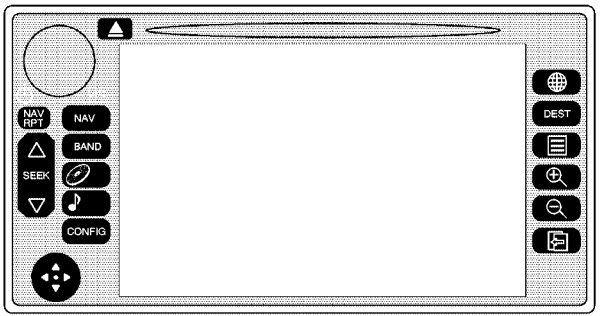
©Copyright General Motors Corporation 12/06/02
All Rights Reserved

Section 1 Overview

Overview 1-2
Introduction 1-2
Screen Setup 1-2

Overview

Introduction



Before you begin to operate this system, read this manual thoroughly to become familiar with it and to understand how the system works.

The Navigation System allows you to do the following:

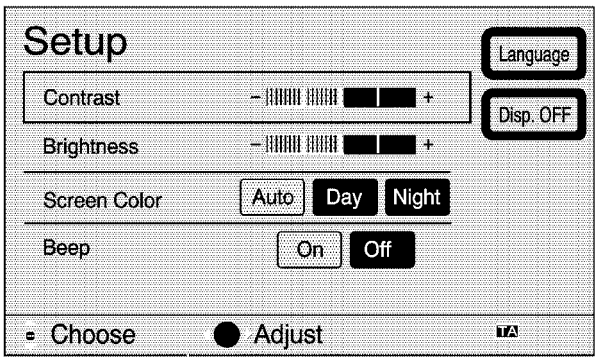
- Plan a route with provided turn-by-turn route and map guidance with voice prompts.
- Select a destination from various areas and choices (i.e. street addresses, intersections, marked points, points of interest, etc.).
- Receive broadcast announcements on traffic and emergency alert communications.

The information in the system may not always be complete. Road conditions, such as prohibited turns, detours and construction zones, change frequently. It is important to consider whether you can follow the directions given by the system for the current conditions.

Control Pad

The control pad, located on the bottom left corner of the navigation system, is used to make selections in the navigation system. Move the control to the left, right, up or down to move around the screens, and push the center of the control pad to enter the selection.

Screen Setup



Press the CONFIG hard key, located on the left side of the navigation screen, to access the Setup menu.

The Setup Menu allows you to adjust such things as screen colors, and language of the display for the Navigation System.

Day and Night Screen Changes

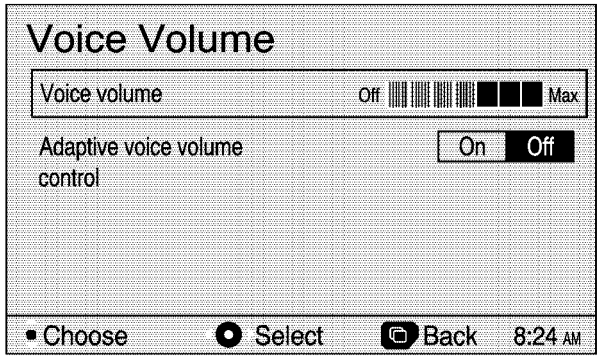
When the headlamp switch is turned off, the screen will change to a lighter background, and change colors, for better viewing in the daytime. At night, the screen will go to a darker background. You can select AUTO for automatic adjustment.

You can also select day or night mode regardless of the lighting conditions. The Day setting leaves the system in the day mode. The Night setting leaves the system in the night mode.

Brightness

To adjust the brightness, press the CONFIG hard key and then choose the option you wish to adjust by selecting it with the control pad. Use the control pad to raise or lower the brightness to the desired level. You will see the screen change as you adjust the brightness.

Volume



To adjust the volume of the voice prompts you receive from the system, select Voice Volume after pressing the Menu key. Use the control pad to raise or lower the volume. The voice prompt will come on with each adjustment to give you an idea of the volume at each level.

Once you have reached he volume level you desire, press the Back key to return to the previous screen.

Language

Your vehicle has been set for the English language, but you may also select French for all instructional text and voice prompts. However, names on the location map when using the navigation functions will not change.

If you wish to change the language, do the following:

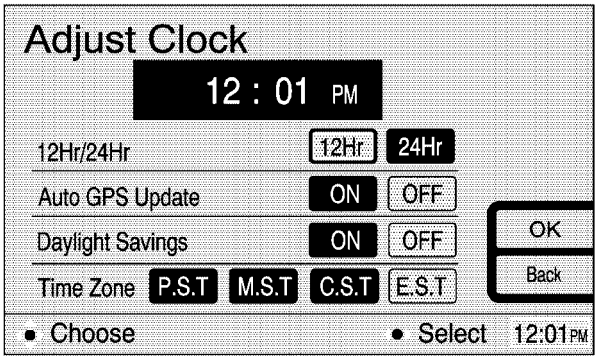
1. Press the Language key under the Setup Menu. A caution will display.
2. Use the control pad to toggle to the language you prefer.
3. Press the Select button in the center of the control pad to choose a language.
4. Select NEXT to change the display back to the map display.

If the language is changed from English, the menu screens will not match word-for-word as they appear in this supplement. If you accidentally set a language and you do not understand the menus, turn your engine off. Your Navigation System will turn off. You will then be able to select a different language when the system starts up again, using the control pad to select the language.

Display Off

To turn off the display screen, press this key. To turn the screen back on, press any hard key on the left side of the screen.

Adjust Clock



To adjust the time displayed at the lower right corner of the navigation screen, select the Adjust Clock option from the Setup Menu.

OK: Allows you to set your selections

Hours/Minutes: To change the time on the clock use the control pad. Press the Select button when the desired time is reached.

12Hr/24Hr: This feature allows you to decide whether the time is displayed in standard or military time. Use the control pad to select which one is desired.

Once you have the time set, you *must* hit the OK button to save your changes and return to the Setup Menu. If you hit the Back key, you will still return to the Setup Menu, but none of your changes will be saved.

Auto GPS Update: This key sets the Navigation System's time to match the current GPS time. The time will be updated with the GPS time when the ignition is turned to ACC or ON.

Daylight Savings: Use the control pad to toggle between Daylight Savings Time On or Off.

Time Zone: This menu allows you to choose from four different time zones: Pacific, Mountain, Central and Eastern. Use the control pad to scroll through the zones. When you have reached the desired zone, push the OK button.

English/Metric Units

You can select either English or metric measurements to appear for distances on the map.

To change between English and metric measurements, do the following:

1. Press the Menu key.
2. Press Setup on the menu display.
3. Choose from the measurement options listed, miles/kilometer.
4. Use the control pad to move to the measurement option you desire.
5. Press the Back key to return to the previous screen.

NOTES

Section 2 Features and Controls

Features and Controls 2-2
Using the Navigation System 2-2
Navigation System Screen 2-5
Navi Menu Options List 2-6
Maps 2-21
Symbols 2-22
Navigation Menu 2-23
Global Positioning System (GPS) 2-24
Vehicle Positioning 2-25
Problems with Route Guidance 2-26
If the System Needs Service 2-26
Ordering Map DVDs 2-26
Database Coverage Explanations 2-26

Features and Controls

Using the Navigation System

This section presents the basic information you will need to know to operate the Navigation System.

The navigation screen shows a number of icons that offer information on a variety of topics.

Use the keys, located on each side of the navigation screen, and the control pad, located at the bottom left corner of the faceplate, to operate the system.

Use the left and right arrows on the control pad to move left and right on the screen and the up and down arrows on the control pad to move up and down on the screen. Push the Select button in the center of the control pad to choose your desired selection.

Once the vehicle is running, various functions will be disabled to reduce driver distractions.

Hard Keys

The following hard keys are located to the left of the navigation screen:

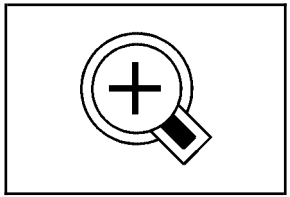
- **(Eject)**
- NAV RPT
- SEEK
- NAV
- BAND
- **(CD)**
- **(Audio)**
- CONFIG

The function of each of these keys will be explained within this supplement.

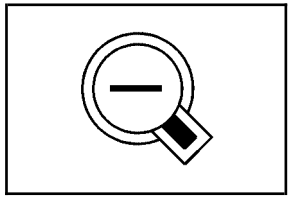
The system also has the following reconfigureable soft keys located to the right of the navigation screen. These have hard key labels for easier understanding while in navigation mode. The six keys change functions for different modes of the system.

- **(Map)**
- DEST
- **(Menu)**
- **(Zoom In)**
- **(Zoom Out)**
- **(Back)**

These keys allow you to do the following:



Zoom In



Zoom Out

- Press Zoom In to get a closer look at the map you are traveling on. Locate a destination easily by zooming in to see a smaller section of the map, if you are close to your destination.
- Press Zoom Out to see a larger scale of the map, if the destination that you wish to reach is a long distance from your current location. You can also view your highlighted route.

Key Pad

The letters, symbols and punctuation available to you are displayed on the alpha bar. The alpha keypad will automatically be available whenever the system needs information from you. Make your selection by pressing the Select button on the center of the control pad.

To enter a space between the words of a name, you must use the control pad and select the space symbol, which is near the end of the keypad.

To make your name selections easier, the system will only allow you to select a character which can follow the last one entered. For example, if you enter Z, you wouldn't be allowed to follow it with T. The system will highlight the available characters and darken the unavailable characters.

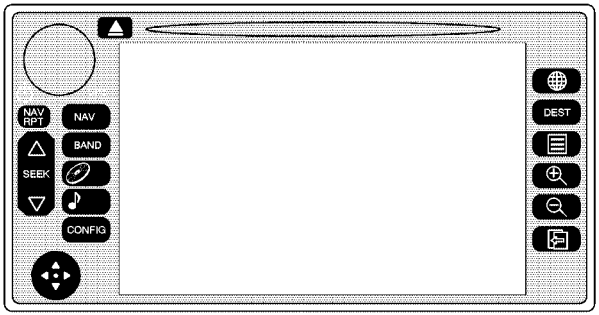
If you select an incorrect character, press the back space symbol button. Be careful when using the control pad because any slight movement can cause a wrong letter selection.

If you are unsuccessful when inputting a name, it may need to be selected differently. It is possible that the map DVD (database) may not contain that information. See Database Coverage Explanations in Section 2.

Numeric Keypad

The numbers available to you are displayed. The numerals will automatically be available whenever the system needs you to input a phone number or house address. You can cycle through the list using the control pad and make your selections by pressing the Select button on the center of the control pad.

Navigation System Screen



This display screen is located in the center of your instrument panel.

Power/Volume Knob

⏻ **:** Press the Power/Volume knob to turn on the audio and Navigation Systems. Turn the Power/Volume knob to increase or to decrease the volume to the audio system. Press the knob again to turn off the audio and Navigation Systems.

NAV (Navigation) Key

If you are in a menu and are not on the map, the first press of the NAV key, located to the left of the display screen, will take you to the map that shows the vehicle's current position.

If no route has been planned, the first press of the NAV key will show the map screen and also the following information:

- The north or heading up symbol in the upper left corner.
- The time.
- The map scale.

If a route has been planned, the first press of the NAV key will show the map screen and also display:

- The number of miles/kilometers until you reach your destination.
- The estimated time to your destination.
- The highlighted route or turn-by-turn instructions.

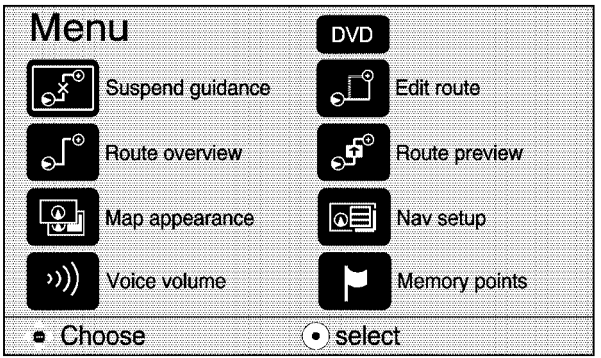
To learn more about the features shown on the map screen, you can find each feature listed in this supplement.

NAV Repeat

You can press the NAV RPT button to have the current audio navigation prompt repeated.

Navi Menu Options List

The following are the options available from the Navigation Menu Display.



Suspend Guidance

When this function is selected, guidance to all current and programmed destinations is suspended but the current route will be retained in memory. You will no longer receive voice prompts for navigation. The map can still be viewed by pressing the Map key.

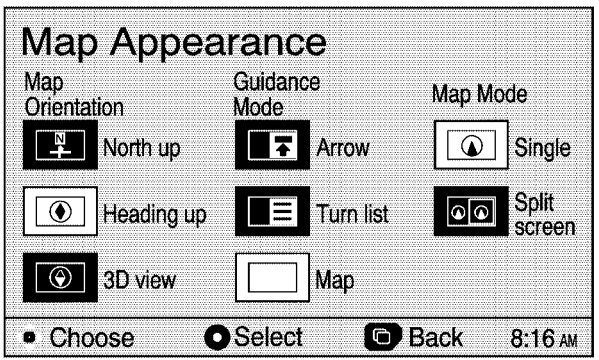
If you suspend guidance the Resume Guidance button will allow you to resume the current route.

Route Overview

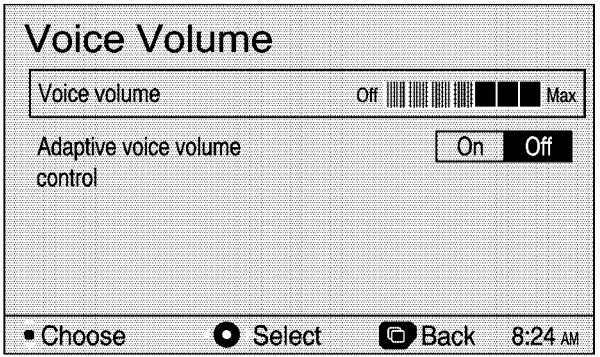
Selecting route overview will show the map with the route highlighted. The total distance and estimated driving time are also displayed.

Map Appearance

This function allows you to select the appearance of the map based on your preferences. You can select the map orientation, guide mode, and map mode.



Voice Volume



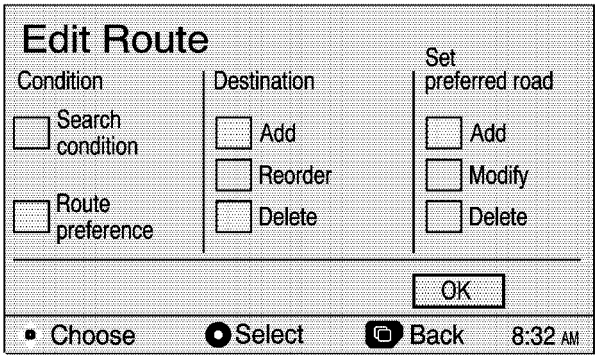
This system has voice guidance prompts that provide various messages as you approach an intersection, or other points where you need to maneuver the vehicle.

You can adjust the volume of the voice prompts or turn off voice guidance. Press the Menu key to display the screen, and select the Voice Volume button. The Volume screen allows you to increase or decrease the volume from 1 to 7 or if you do not need voice guidance, to select Off. If you select Adaptive volume control, the volume is turned up automatically when the vehicle speed exceeds 50 mph (80 km/hr).

DVD Information

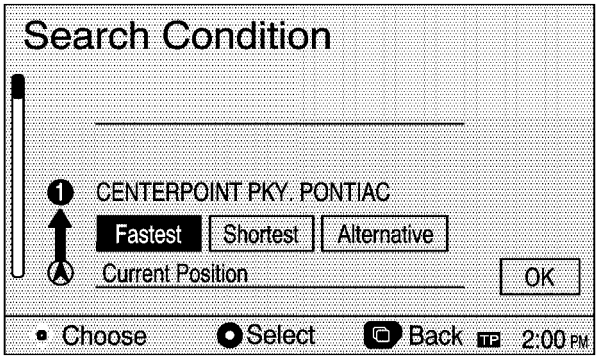
Selecting DVD will display the information for the current navigation database disc.

Edit Route

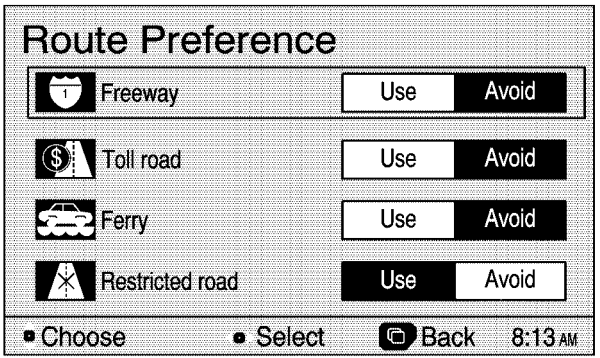


This function allows you to reroute based on preferences. You can also add, reorder or delete destinations and adjust road preference settings.

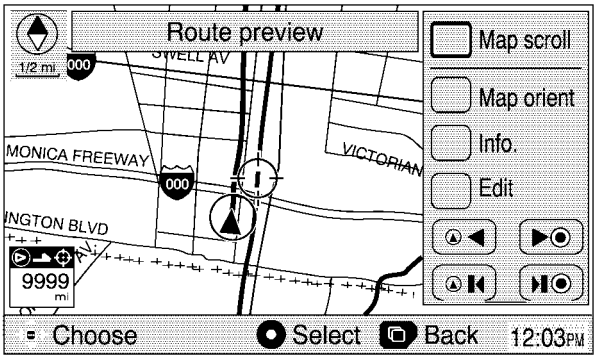
The Search Condition screen allows you to select your route preference using the fastest, shortest, or alternative route. By selecting the fastest route you will be routed along main roads and highways, and it does not necessarily mean it is the shortest route.



The Route Preference screen allows you to select your road preferences by setting which roads you wish to use and avoid.

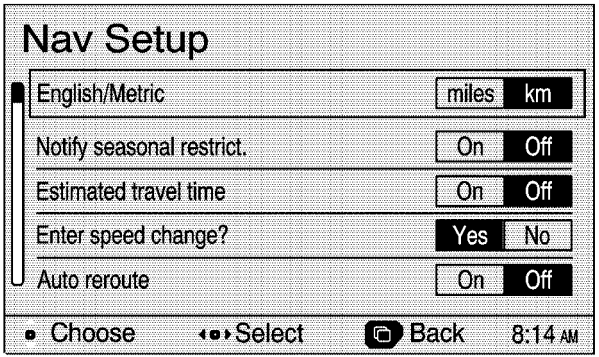


Route Preview



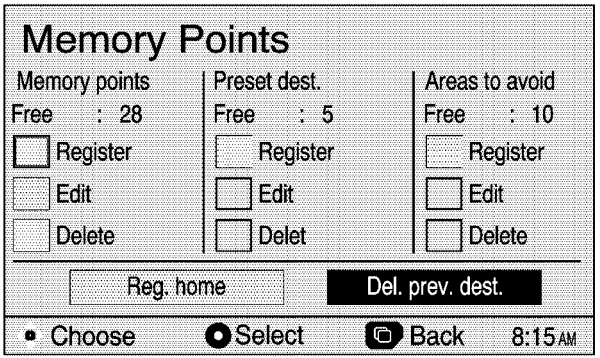
Selecting route preview from the MENU screen displays the map screen with the route highlighted. The total mileage traveled and drive time is also displayed. The route is traced by the vehicle icon. You can preview the route from the starting position to the destination.

Nav Setup



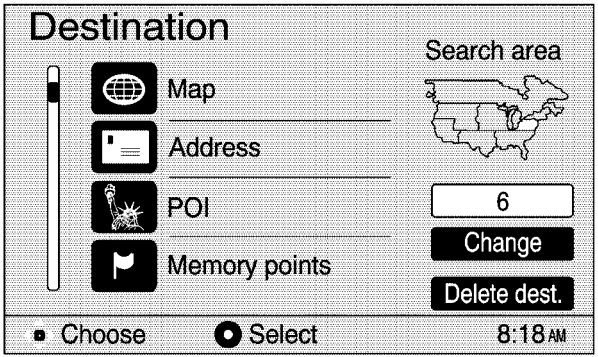
Selecting this function displays the Setup menu. From the Setup menu several options such as estimated travel time, enter speed change, auto reroute and notify seasonal restriction, may be adjusted or turned on and off.

Memory Points



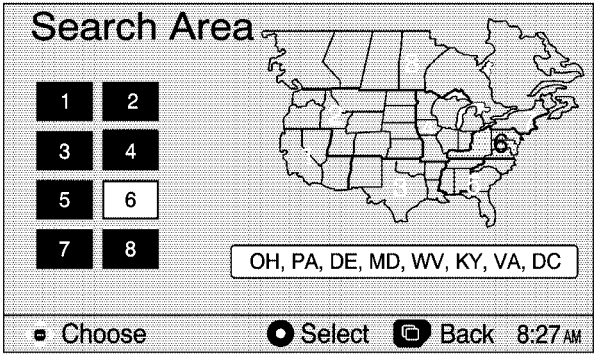
Selecting this function will display the Memory Points menu. This menu contains options for registering, deleting and editing marked points stored in memory. The name, location, information and icon may be edited. Five preset destinations as well as one for Home may be registered or edited. The five preset destinations and Home are the only destination selections available from the Destination entry screen while the vehicle is moving. Up to 10 areas to avoid may also be registered.

DEST (Destination)



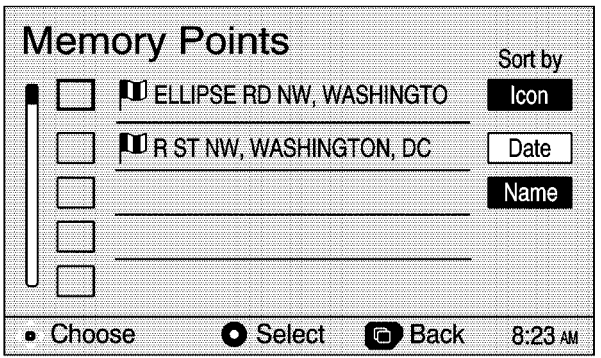
Press this key to display one of the Destination menus. This menu will give you more ways to plan a route by entering destination points.

This screen allows you to select the area to be searched for your destination. Select Change on the screen to display a map of the United States and a part of Canada divided into 8 regions. Select the one you want by using the arrows on the control pad and pressing the Select button to select it. The Destination menu screen will return automatically.



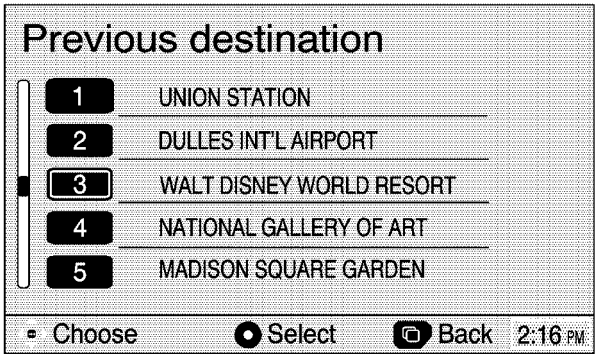
You may choose to enter a destination using one of the items from the list. Use the control pad to choose from the following destination planning options:

Memory Points Destination Entry: This option allows you to select a destination by choosing from a list of marked points on the map that were previously marked. Memory points include up to 30 saved points and five preset destinations. Selecting marked points from the Destination Entry menu allows you to select any one of the marked points as the active destination. Marked points can also be sorted by icon, date saved or alphabetically.

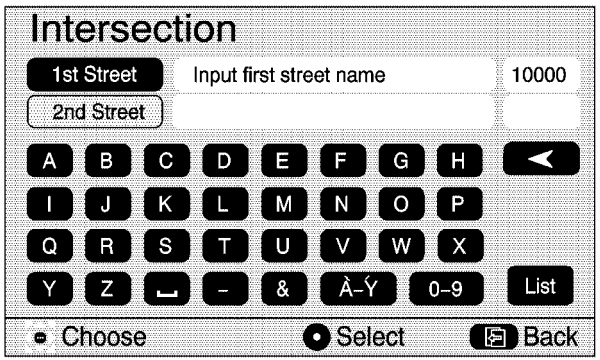


If you choose to register a memory point, you will be able to select an icon of your choice to correspond with that memory point. You will be given a screen with several icons to select from. You can also choose to register that memory point by using a sound, which you select. To select a sound choose With Sound and press the Select button.

Previous Destination Entry: This option allows you to select a destination by choosing from a list of previous destinations once entered.



Intersection Destination Entry: This option allows you to select a destination by inputting the intersecting roads you wish to travel to. When you select Intersection from the Destination menu, the alpha keypad will appear to allow you to input the name of the first street. This should bring up a list streets with that name. Select the correct city and then the system will allow you to enter the second street. If you input a street name which does not cross the first street a message will appear “No corresponding intersections.” After you have entered the second street, a list of cities will appear, then the route will be calculated and a voice prompt will come on to direct you to “Proceed to the highlighted route.” If there are several cities that contain that specific intersection you must specify a city.



Emergency Destination Entry: This option allows you to select a destination by choosing from a list of emergency facilities. The list will vary by area. Selecting Police Station or Hospital will show a list. The order of the list can be changed to alphabetical order or order of distance.

Freeway Entrance/Exit Destination Entry: This option allows you to select a destination by entering a freeway entrance or exit point. Highway names can be entered through the alpha-numeric keyboard by using the control pad.

Previous Start Point Destination Entry: This option allows you to view the last start point.

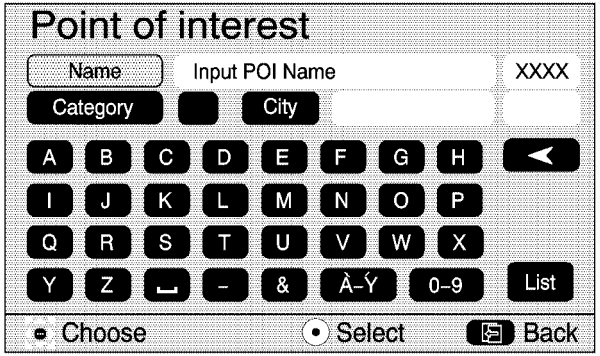
Home Destination Entry: This option allows you to designate home as the destination by selecting Home from the Destination menu.

Map Entry: Selecting Map on the Destination menu allows the screen to change and displays the map location of the last map and the road preference. Use the control pad to scroll across the map to locate your destination.

Once you have located the desired destination, simply press the select button and the route will be planned for you. You will also hear a voice prompt directing you to “Proceed to the highlighted route.”

Use the Zoom Out key. See “Zoom Out” under “Using the Navigation System” earlier in this section, to view the entire regional map. However, when you zoom all of the way out and scroll around the map, some parts of the map will be “missing” because they are not readable in larger scales.

POI (Points of Interest): This feature allows you to choose a destination from the points of interest list. Selecting POI from the Destinations menu brings up the Points of Interest entry menu. The POIs in the database are cross referenced between Name, Category and City Names. Name and City Names can be entered through an alpha-numeric keyboard by using the control pad.



You have three ways to select a point of interest from this screen:

- Type in a point of interest by name using the alpha keypad. As you type in a name, the system will search for an available match to your input. Select the correct point of interest name.
- Select a point of interest by choosing the Category option. Select a category from the list the system will supply. If the list of available points of interest for the category selected is still too long, you may need to enter in the name or city of the point of interest.
- Select the City button and then type in the city you wish to select a point of interest from. Press the List button to see a list of cities and select the correct one from it.

While inputting a point of interest or city name, the List button will become available. Press the List button to view the list of available name choices or continue to spell the name to further reduce the list of available items.

Points of Interest

The following list shows the types of facilities in the DVD database that you can choose from when using the POI options:

- Airport
- Amusement Park
- ATM
- Auto Service & Maintenance
- Automobile Club
- Automobile Dealership
- Bank
- Border Crossing
- Bowling Center
- Buick®
- Bus Station
- Business Facility
- Cadillac®
- Casino
- Chevrolet®
- City Center
- Community Center
- Commuter Rail Station
- Court House
- Exhibition Center
- Ferry Terminal
- Gas Station
- Golf Course
- Government Office
- GMC®
- Grocery Store
- Historical Monument
- Hospital
- Hotel
- Ice Skating Rink
- Library
- M-Way Service
- Marina
- Movie Theater
- Museums
- Night Club
- Oldsmobile®
- Other
- Park & Ride
- Park/Recreation Area
- Parking Garage
- Parking Lot
- Performing Arts

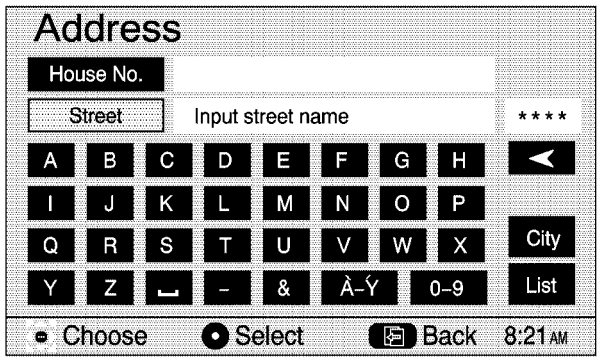
- Police Station
- Pontiac®
- Post Office
- Public Sports Airport
- Rental Car Agency
- Railway Station
- Restaurant
- Saab®
- Saturn®
- School
- Shopping
- Ski Resort
- Sports Complex
- Theatre
- Tourist Attraction
- Tourist Information
- Town Hall
- University
- Winery

If a right or left arrow appears to the left or right of the item name, the complete name is too long for the display. Use the left or right arrows on the control pad then press Select, and the name will scroll to the end or beginning of its name.

The POI for Restaurant is broken down into several distinct categories. Select Restaurant from the POI choices. Category Type will then appear as an option.

Address: This method allows you to input and store an address (without a zip code) by providing the system with a house number, street name and city.

Do not include steet directions such as ″N. Main Street″. Enter only ″Main Street″.



Enter the name of a street using the alphanumeric keypad.

To enter the city name, select City on the Address screen. Select Input City Name. Enter the name of the city using the alpha keypad. Select the desired city name from the list the system provides. After you have entered the city name, the system will prompt you to enter the name of the street or will give you a list of street names to choose from. Enter or select the desired street name.

As information is entered, the system will automatically search for available names. While inputting a name, the List button will become available. Press the List button to view the available name choices or continue to spell the name to further reduce the number of available items.

Enter the house number using the numeric keypad. See “Numeric Kaypad” under “Using the Navigation System” in Section 2 for more information.

The system will list the house number range that is available for the street.

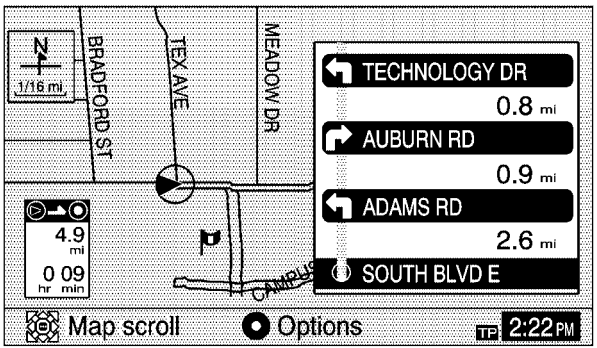
If you did not select the city name previously, the system may prompt you to do so using the alpha keypad or from a list of names which the system provides. Select the desired city name.

Push the Select button on the center of the control pad to set this as your destination. The system will return to the Enter Destination screen.

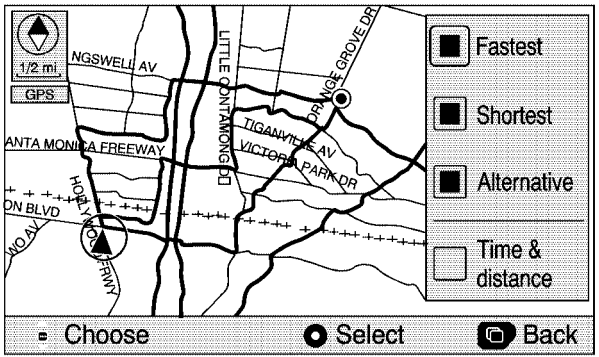
If you choose to register a memory point, you will be able to select an icon of your choice to correspond with that memory point. You will be given a screen with several icons to select from. You can also choose to resgister that memory point by using a sound, which you select. To select a sound choose With Sound and press the Select button.

Route Overview: Once a destination has been selected the Route Overview screen is displayed. This screen displays the highlighted route and the following options:

- Start
- Turn List: This menu shows all legs of the selected route with a mileage value for each.



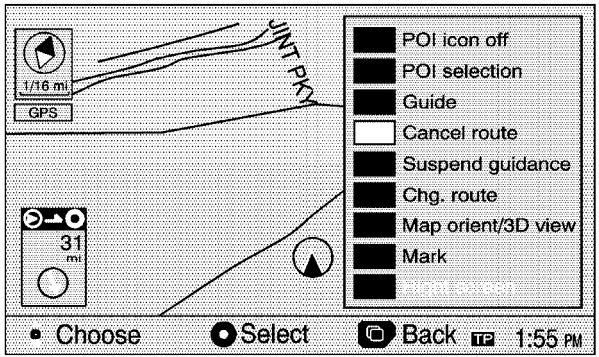
- 3 Routes:



- This screen will display the map with three highlighted routes with three different colors; Fastest, Shortest and Alternative. After selecting one of the three routes, the main navigation screen will be displayed. The Fastest route means you will be routed along main roads, and highways, and does not necessarily mean it is the shortest route.
- Edit Route, which allows you to change your route preferences. See ″Edit Route″ earlier in Section 2 for more information.

(Back): This key always returns you to the previous screen.

Once you select your destination and begin your route you can press the control pad to bring up a list of route options.



You can choose from several options such as:

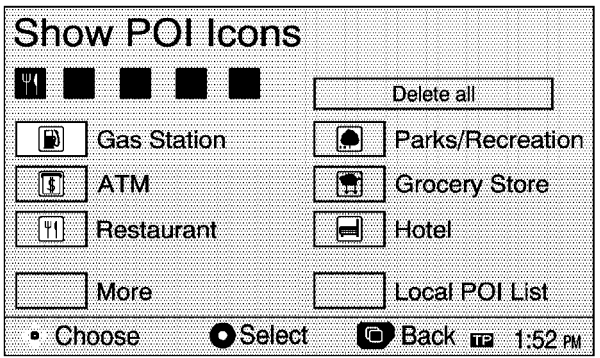
- POI Icon off: Turns off the POI Icon
- POI Selection: Allows you to choose points of interest
- Cancel Route: The current, or first destination, will be canceled, and will begin using the second programmmed destination.
- Suspend Guidance: Suspends all current and programmed destinations. See ″Suspend Guidance″ earlier in Section 2.

- Chg. route: Allows you to change the route you wish to take.
- Map orient/3D view: Allows you tochoose the way you whish to seee the map as you travel.

You can also choose Mark and Right Screen to mark points and position the screen.

Choose the option you want and press the Select button.

If you select the Show POI Icons screen you will see different POI groups that you can choose to view.



If you want to view a list of local points of interest, press the Local POI List button. The Local POI List screen will show you a list of the closest points of interest you selected. You can then choose and select the POI you want.

Once you select the desired location, the system will show a map of the area with a symbol marking the destination.

If you choose to register a memory point, you will be able to select an icon of your choice to correspond with that memory point. You will be given a screen with several icons to select from. You can also choose to register that memory point by using a sound, which you select. To select a sound choose With Sound and Press the Select button.

Colors on the Screen

When a route has been planned, it will be highlighted on the screen in blue.

Different colors are also used to distinguish between interstate freeways, state highways, county roads, major street and secondary streets. Highways will be shown as a thicker line than a general street.

Maps

This section includes basic information that you need to know about the map database.

The maps are stored on a DVD-ROM. The United States (excluding Alaska and Hawaii) and portions of Canada are contained in one disc. The United States map database includes the interstate freeways, state highways, country roads and major and general streets.

Refer to the “Navigation System Map Disc” manual to view the explanation of map coverage. This manual will be in your map DVD case when the vehicle is delivered from the factory.

When your vehicle is delivered from the factory, the dealer may have installed the map DVD. If the DVD was not installed in your vehicle when first purchased, use the following directions to load the DVD:

1. Turn the ignition switch to ON or ACCESSORY.
2. If already loaded, eject the map DVD or a CD from the slot.
3. Load the map DVD into the slot by inserting it partway. The system will pull it in.

Once the DVD is inserted correctly, you will have the following two choices:

- ENG (English)
- FR (French)

You can change the language by using the control pad, located on the bottom left corner of the navigation system, to select a language and pressing the Select button. Once a language is selected, select NEXT to plan a route. The map will appear showing your current vehicle position.

Map Adjustments

The system allows you to adjust the scale of view on the map. Also, the map will scroll automatically based on the direction you are traveling.

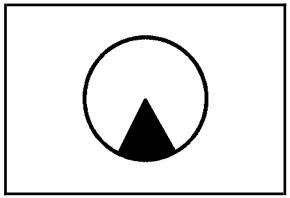
To view a larger or smaller scale of the map, press the Zoom In or Zoom Out symbol keys. See “Zoom In/Out” later in this section for more information on these keys.

Map Scales

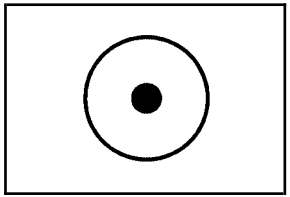
The scale of a map can range from 1/32 of a mile (0.05 km) to 128 miles (206 km).

Symbols

The following symbols are the most common that appear on a map screen.



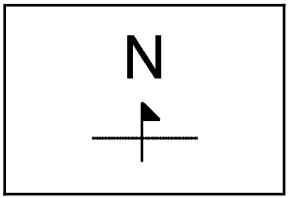
Your vehicle is shown as this symbol. It indicates the current position of your vehicle on the map.



This symbol will appear on the map after a route has been planned showing your destination.

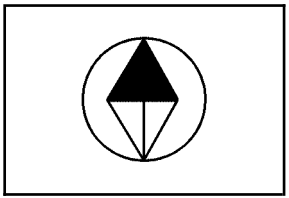
See “DEST (Destination)” under “Navi Menu Options List” earlier in this section, for information on planning a route.

When one of five possible destinations has been set, you will see a circle with the number, 1–5, of which destination it is.



This symbol indicates the map with North up.

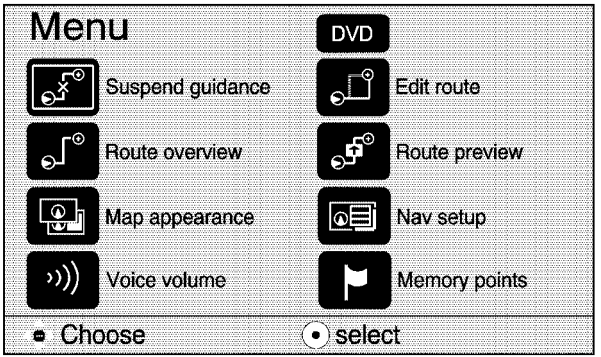
Regardless of the direction of vehicle travel, North is always up on the screen.



This symbol indicates the map with the vehicle travel direction up.

The shaded triangle indicates North. By selecting map orient while on the map screen, you can see your vehicle always traveling in an up direction on the screen even though you are not traveling North.

Navigation Menu



The main navigation menu allows you to choose from an itemized list of options or to use the multi-function keys to make adjustments to the system and plan routes.

You will be able to choose from the following list of items on the main navigation menu:

- Suspend Guidance
- Route Overview
- Map Appearance
- Voice Volume
- DVD (DVD Information)
- Edit Route
- Route Preview
- Nav Setup
- Memory Points

These multi-function keys are also available:

- **(Map)**
- DEST (Destination)
- **(Menu)**
- **(Zoom In)**
- **(Zoom Out)**
- **(Back)**

Global Positioning System (GPS)

The Navigation System determines the position of your vehicle by using satellite signals, various vehicle signals and map data.

The Global Positioning System (GPS) locates the current position of your vehicle using signals sent by the United States Department of Defense GPS Satellites. While your vehicle is receiving signals from the satellites, GPS will not appear on the map screen.

However, at times, other interferences such as the satellite condition, road configuration, the condition of the vehicle and/or other circumstances can interfere with the system's ability to determine the accurate position of the vehicle. This is when GPS will appear on the map screen.

The system may not be available or interferences may occur if any of the following are true:

- Signals are obstructed by tall buildings, large trucks or a tunnel.
- Metallic objects are located on the dashboard.
- Satellites are being repaired or improved.
- Aftermarket glass tinting has been applied to the vehicle's windshield.

Do not apply aftermarket glass tinting to the vehicle's windshield or place metallic objects on the vehicle's dashboard. Glass tinting and metallic objects will interfere with the system's ability to receive GPS signals and may cause the system to malfunction.

If you are experiencing a problem, see "Vehicle Positioning" and "Problems with Route Guidance" following for more information.

Vehicle Positioning

At times, the position of the vehicle on the map may be inaccurate due to one or more of the following reasons:

- The road system has changed.
- The vehicle is traveling on slippery road surfaces such as sand, gravel and/or snow.
- The vehicle is being driven on winding roads.
- The vehicle is being driven on a long straight road.
- The vehicle is approaching a tall building or a large vehicle.
- The surface streets run parallel to a freeway.
- The vehicle has just been transferred by a vehicle carrier or a ferry.
- The current position calibration is set incorrectly.
- The vehicle is being driven at high speeds.
- The vehicle is repeating a change of directions by going forward and backward, or turning on a turn table in a parking lot.
- The vehicle is entering and/or exiting a parking lot, garage or a lot with a roof.
- The vehicle has a roof carrier, ski or bike rack installed on it.
- The vehicle has tire chains on it.
- The tires have been replaced.
- The tire pressure is incorrect.
- The tires are worn.
- The battery is disconnected.
- The vehicle is driven in heavy traffic where driving is at low speeds and the vehicle is stopped and started repeatedly.

Problems with Route Guidance

Inappropriate route guidance may occur under any of the following conditions:

- You have not turned onto the road indicated by the system.
- Route guidance is not available for the next right or left turn.
- The route is not changed during automatic rerouting.
- Plural names of places are displayed.
- You are driving at high speeds, which may cause the automatic rerouting to operate slower.
- The route prohibits the entry of a vehicle due to a regulation by time or season or any other regulation which may be given.
- A route cannot be found.
- A road is new, was recently changed or is not listed on the DVD. The route to the destination may not be shown. See “Ordering Map DVDs” later in this section.

If the System Needs Service

If you are still experiencing difficulty with your Navigation System after reading this information, see your dealer for assistance.

Ordering Map DVDs

The map DVD in your vehicle is the most up-to-date information available when your vehicle was purchased. The map DVD is updated once a year, provided that the map information has changed. To order a new DVD, contact your dealer.

Database Coverage Explanations

Coverage areas vary with respect to the level of map detail available for any given area. Some areas will feature greater levels of detail than others. If this happens, it does not mean there is a problem with the system. As the map DVD is updated, more detail may become available for areas which previously had limited detail. See “Ordering Map DVDs” earlier in this section.

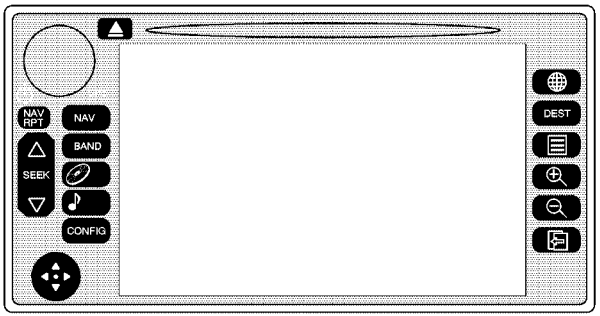
Section 3 Navigation Audio System

Navigation Audio System 3-2

Navigation Audio System

The audio system has been designed to operate easily and give years of listening pleasure. You will get the most enjoyment out of it if you acquaint yourself with it first. Find out what your audio system can do and how to operate all its features, to be sure you're getting the most out of the advanced engineering that went into it.

The ignition must be in ACC or ON for your audio system to work.



Navigation/Radio Display and Controls

The audio system is operated using the menus located on the navigation system screen. The audio menus are explained in this section.

Playing the Radio

The audio system can be operated using the knobs and hard keys located on both sides of the navigation screen.

⏻ **(Power/Volume):** Press this knob to turn the audio and navigation systems on and off, and to increase or to decrease the volume.

BAND: Press this hard key to access the BAND screen and to switch between AM, FM1 and FM2, XM1 and XM2. Each radio band has six station presets accessible.

Finding a Station

TUNE: Use the control pad in the lower left corner of the navigation system to select radio stations manually.

∧ SEEK ∨: Press the up or the down arrow to go to the next or the previous station and stay there.

To scan stations, press and hold the SEEK up or down arrow for two seconds until you hear a beep. The radio will go to a station, play for a few seconds, then go on to the next station. Press either SEEK arrow again to stop scanning.

To scan preset stations, press and hold the SEEK up or down arrow for more than four seconds. You will hear two beeps and PSCAN will be displayed, along with the number preset. The radio will go to the first preset station stored on your pushbuttons, play for a few seconds, then go on to the next preset station. Press either SEEK arrow again to stop scanning presets.

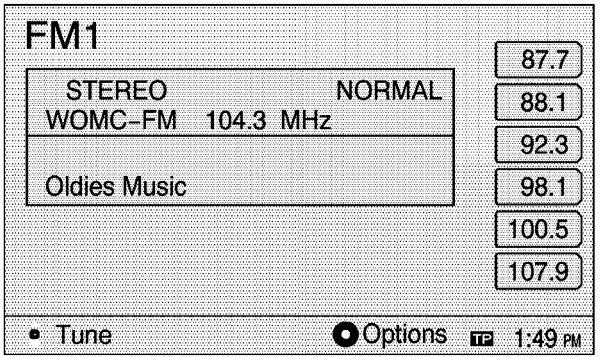
The radio will seek and scan only to stations that are in the selected band and only to those with a strong signal.

Setting Preset Stations

The six multi-function keys, located to the right of the navigation screen, allow you to store your favorite stations. You can store up to 30 stations (6 AM, 6 FM1, 6 FM2, 6 XM1 and 6 XM2). To set preset stations, do the following:

1. Turn the audio system on.
2. Press the BAND hard key to select the desired band (AM, FM1, FM2, XM1 or XM2).
3. Locate the desired station using the SEEK hard key or the control pad.
4. Press and hold one of the six hard keys located to the right of the navigation screen, until you hear a beep. Whenever you press that hard key while in the BAND menu, the station you set will return.
5. Repeat the steps for each preset and source.

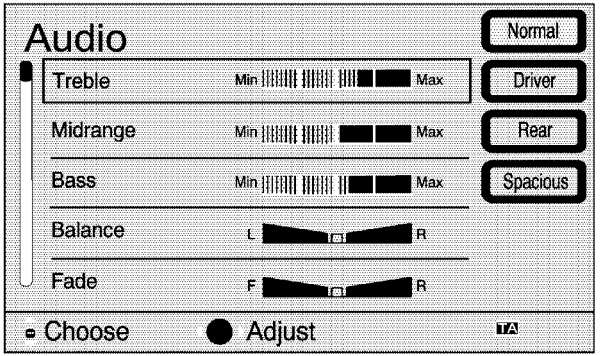
Audio Screen



FM1 Source Shown, Other Sources Similar

(Audio): Press this hard key to display the audio menu.

Tone: Use the control pad, located at the bottom, left corner of the navigation system, to access the following settings. To move between TREB, MID, and BASS or on the next page between BAL and FADE. Use the control pad to move each setting to the desired level.



Using the right side hard keys you can choose from normal, driver, rear & spacious, and adjust the audio settings for each.

Radio Data Systems (RDS)

Your audio system is equipped with a Radio Data System (RDS). Using RDS, the radio can do the following:

- Seek only to stations broadcasting the selected type of programming,
- seek to stations with traffic announcements,
- receive announcements concerning local and national emergencies, and
- display messages from radio stations.

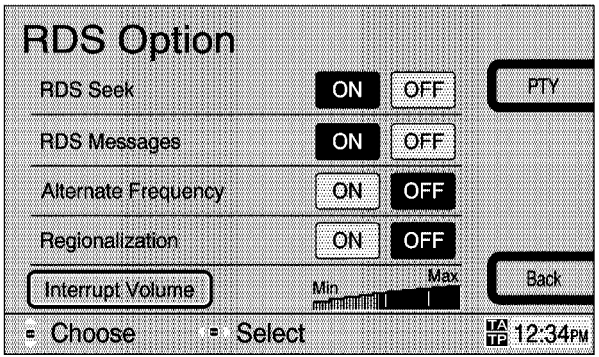
RDS features are only available on FM stations that broadcast RDS information. The RDS features on your radio rely on receiving specific RDS information from these stations. These features will only work when the RDS information is available. In rare cases, a radio station may broadcast incorrect information that will cause the radio features to work improperly. If this happens, contact the radio station.

While you are tuned to an RDS station, the station name will appear on the display. RDS stations may provide a program type (PTY) for current programming and the name of the program being broadcast.

RDS Option Menu

Once you are at the FM screen, press select on the control pad to bring up the RDS Option Menu.

Here you will be able to choose from the following RDS options:



RDS Seek: When this function is selected, the system will only stop on stations which broadcast one of the program types (PTY) selected in the RDS Criteria menu. You may select “All” to allow the radio to stop on any radio station broadcasting RDS data.

Press the SEEK up or down arrow to look for other stations with that criteria type. If a station with the selected criteria is not found, the radio will return to the original station.

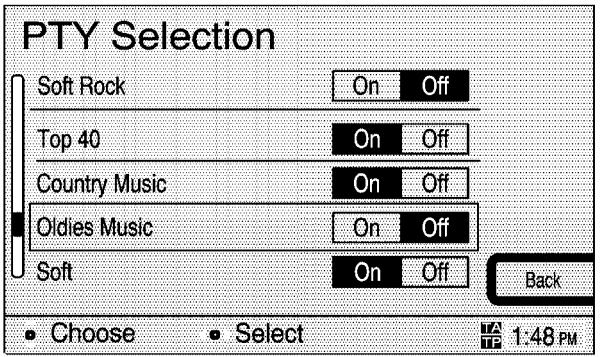
RDS Criteria: The RDS Criteria you can select from includes: Adult Hits, Classical, Classical Rock, College, Country, Information, Jazz, Language, News, Nostalgia, Oldies, Personality, Public, Rhythm and Blues, Religious Music, Religious Talk, Rock Music, Soft, Soft Rock, Soft R & B, Sports, Talk, Top 40 and Weather.

When you select Any, all program types are selected.

When you select None, selected program types are canceled.

To select PTY preferences, do the following:

1. Press the PTY button on the RDS Options menu under softkey 2 to bring up the available selections.



2. Use the control pad to move and select as many program types as desired. You can also select “none” or “any”.

RDS Messages: If you have selected this option and the radio station you are listening to has a message, it will be displayed on the FM screen when it is received.

Alternate Frequency: When this function is selected on the RDS menu, the radio will automatically switch to a stronger station in an RDS network that is playing the same network broadcast. While the frequency may change, the station call letters should stay the same, as they are in the same RDS network.

Regionalization: When this function has been selected on the RDS menu, the tuner will stay tuned to the current RDS station even if it departs from RDS network broadcast in favor of broadcasting local or regional content.

Interrupt Volume: This option allows you to set the volume level at which the audio system will play a traffic announcement.

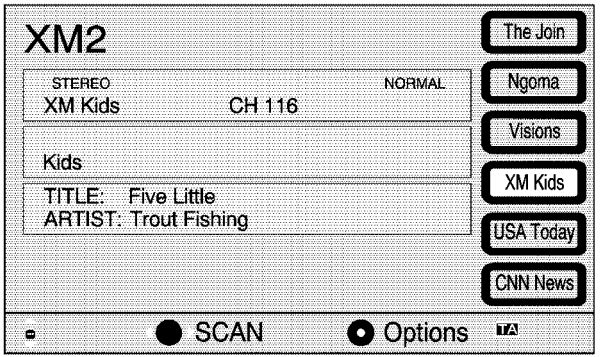
Use the control pad to choose this option. Use the control pad to move to the desired volume level.

XM™ Radio Satellite Service (USA Only)

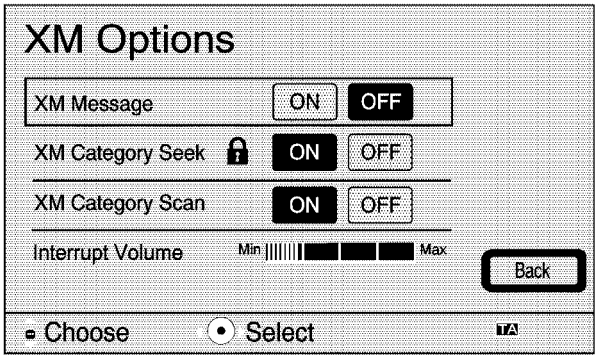
Your vehicle may be equipped with this feature. XM™ is a continental U.S. based satellite radio service that offers 100 coast to coast channels including music, news, sports, talk and children's programming. XM™ provides digital quality audio and text information, including song title and artist name. A service fee is required in order to receive the XM™ service. For more information, contact XM™ at www.xmradio.com or call 1-800-852-XMXM (9696).

XM™ Options

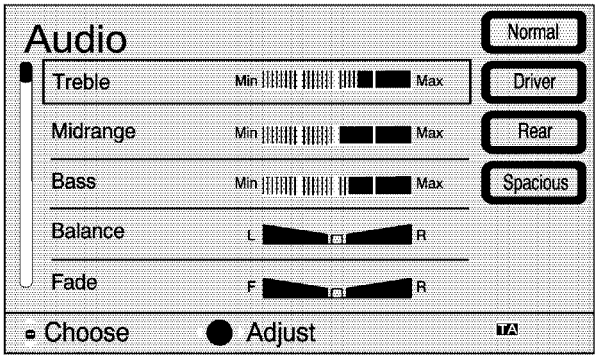
When XM™ is active, the channel name and number, song title and artist will be displayed on the screen.



To access the XM™ Options you must be in the Radio screen with the XM1 or XM2 band active. Pressing the Options button will bring up the XM™ Menu.



This menu allows you to seek or scan for stations based on their category. While in this menu you can use the control pad to scroll through the categories you want to seek to. Use the SEEK/SCAN switch to seek to the first available channel in that category.



Use the audio setup screen to adjust options like the treble, bass and fade on your radio.

XM™ Radio Messages

Radio Display Message	Condition	Action Required
XL (Explicit Language Channels)	XL on the radio display, after the channel name, indicates content with explicit language.	These channels, or any others, can be blocked at a customer's request, by calling 1-800-852-XMXM (9696).
XM Updating	Updating encryption code	The encryption code in your receiver is being updated, and no action is required. This process should take no longer than 30 seconds.
No XM signal	Loss of signal	Your system is functioning correctly, but you are in a location that is blocking the XM signal. When you move into an open area, the signal should return.
Loading XM	Acquiring channel audio (after 4 second delay)	Your radio system is acquiring and processing audio and text data. No action is needed. This message should disappear shortly.
Channel Off Air	Channel not in service	This channel is not currently in service. Tune in to another channel.
Channel Unavail	Channel no longer available	This previously assigned channel is no longer assigned. Tune to another station. If this station was one of your presets, you may need to choose another station for that preset button.
No Artist Info	Artist Name/Feature not available	No artist information is available at this time on this channel. Your system is working properly.
No Title Info	Song/Program Title not available	No song title information is available at this time on this channel. Your system is working properly.

XM™ Radio Messages (cont'd)

Radio Display Message	Condition	Action Required
No CAT Info	Category Name not available	No category information is available at this time on this channel. Your system is working properly.
Not Found	No channel available for the chosen category	There are no channels available for the category you selected. Your system is working properly.
No Information	No Text/Informational message available	No text or informational messages are available at this time on this channel. Your system is working properly.
XM Theftlocked	Theft lock active	The XM receiver in your vehicle may have previously been in another vehicle. For security purposes, XM receivers cannot be swapped between vehicles. If you receive this message after having your vehicle serviced, check with the servicing facility.
XM Radio ID	Radio ID label (channel 0)	If you tune to channel 0, you will see this message alternating with your XM Radio 8 digit radio ID label. This label is needed to activate your service.
Unknown	Radio ID not known (should only be if hardware failure)	If you receive this message when you tune to channel 0, you may have a receiver fault. Consult with your dealer.
Check XM Receiver	Hardware failure	If this message does not clear within a short period of time, your receiver may have a fault. Consult with your retail location.

Playing CDs

If your vehicle is equipped with this feature, you can play a single CD by sliding a CD into the slot above the navigation screen or by using a six-disc changer. Both of these features are explained further in this supplement.

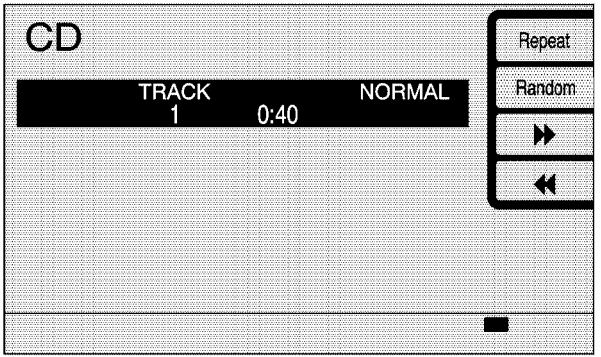
CD (Compact Disc): Press this hard key to change the source to CD, if an audio disc is loaded in the single disc slot above the navigation screen, or to CD changer if discs are loaded in the magazine of the six-disc CD changer. See “CD Changer” in your owner’s manual for more information.

To use the player as a single music CD player, you must first remove the navigation map DVD. While playing a CD in the CD player, the navigation system is not available. A message will display if the NAV key is pressed.

To remove the navigation map DVD and load a music CD, do the following:

1. Turn the ignition to ACC or ON.
2. Press the ⏏ **(Eject) button.**
3. Gently remove the navigation map DVD from the slot and return it to its case.
4. Insert the music CD into the slot. The system will pull the CD into the player.

Playing a Single Compact Disc



Repeat: Press and release this button to repeat the track that is currently being played. Press Repeat again to turn this feature off.

Random: Press this button to play the tracks on the disc in random, rather than sequential, order. Press it again to turn off Random play and to return to normal operation.

(Forward): Press and hold this button to quickly advance within a track. As the CD advances, elapsed time will be displayed to help you find the correct passage.

(Reverse): Press and hold this button to quickly reverse within a track. As the CD reverses, elapsed time will be displayed to help you find the correct passage.

Track Seek: The SEEK key will move the CD to the next track and previous track when pressed and released within two seconds.

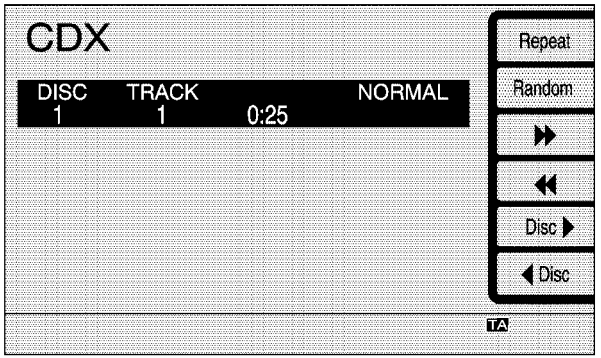
Track Scan: This function is performed by pressing and holding the SEEK key for two seconds or more, at which time a chime is played to alert you that the CD player has entered CD TRACK SCAN mode. While TRACK SCAN is active, the first 10 seconds of each track on the disc will be played before advancing to the next track. Pressing the SEEK key again will stop the scan at the track currently being played.

To switch between tracks on a disc, use the arrows on the SEEK key. Press the up arrow to advance to the next track on the disc. Press the down arrow to return to the previous track on the disc.

BAND: Press this hard key to switch to the radio when a CD is playing.

See “Playing a Compact Disc” in Section 3 of your owner’s manual for more information.

Playing a Compact Disc with the CD Changer



Your vehicle may be equipped with a CD Changer.

Repeat: Press and release this button to repeat the track that is currently being played. Press Repeat again to turn this feature off.

Random: Press this button for less than two seconds to play the tracks on the current disc in random, rather than sequential, order. Press it again to turn off random play and to return to normal operation.

When the Random button is pressed for more than two seconds, the player selects the D. Random mode. The system will then select a track from all of the discs in the magazine and will play them in random order. To cancel it, press the button again.

(Forward): Press and hold this button to quickly advance within a track. As the CD advances, elapsed time will be displayed to help you find the correct passage.

(Reverse): Press and hold this button to quickly reverse within a track. As the CD reverses, elapsed time will be displayed to help you find the correct passage.

(Next) Disc: Press this button to advance to the next disc in the changer.

(Previous) Disc: Press this button to return to the previous disc in the changer.

To switch between tracks on a disc, use the arrows on the SEEK hard key. Press the up arrow to advance to the next track on the disc. Press the down arrow to return to the previous track on the disc.

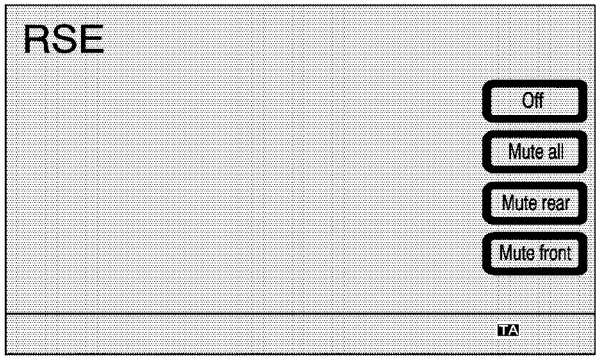
Track Scan: This function is used by pressing and holding the SEEK key for at least two seconds, but less than four seconds, at which time a single chime is played to alert you that the CD changer has entered TRACK SCAN mode for the current CD. While TRACK SCAN is active, the first 10 seconds of each track on the current disc will be played before advancing to the next. Pressing the SEEK key again will stop the scan at the track currently being played.

Disc Scan: This function is used by pressing and holding the SEEK key for at least four seconds, at which time a double chime is played to alert you that the CD changer has entered DISC SCAN mode for the entire CD magazine. While DISC SCAN is active, the first 10 seconds of the first track on each disc will be played before advancing to the first track on the next disc. Pressing the SEEK key again will stop the scan at the track and disc currently being played.

BAND: Press this hard key to switch to the radio when a CD is playing.

See “CD Changer” in Section 3 of your owner’s manual for more information about the CD Changer.

Rear Seat Entertainment (RSE)



Your vehicle may be equipped with this feature.

While playing a DVD in the RSE, press the CD button to view the RSE screen. From this screen you can mute or turn off the rear seat entertainment system.

NOTES

A

Adjust Clock 1-4
Audio Screen 3-4
Audio System 3-2

B

Brightness 1-3

C

Colors on the Screen 2-21
Control Pad 1-2

D

Database Coverage Explanations 2-26
Day and Night Screen Changes 1-3
DEST (Destination) 2-11
Display Off 1-4
DVD Information 2-8

E

Edit Route 2-8
English/Metric Units 1-5

F

Finding a Station 3-3

G

Global Positioning System (GPS) 2-24

H

Hard Keys 2-2

I

If the System Needs Service 2-26
Introduction 1-2

K

Key Pad 2-4

L

Language 1-4

M

Map
  Ordering Map DVDs 2-26
Map Adjustments 2-21
Map Appearance 2-7
Map Scales 2-21
Maps 2-21

Memory Points 2-10
Menu
Navi Options List 2-6
Navigation 2-23

N

NAV (Navigation) Key 2-5
NAV Repeat 2-6
Nav Setup 2-10
Navigation
Menu 2-23
Navi Menu Options List 2-6
System Screen 2-5
Using the System 2-2
Numeric Keypad 2-4

O

Ordering, Map DVDs 2-26

P

Playing CDs 3-12
Playing the Radio 3-2
Power/Volume Knob 2-5
Problems with Route Guidance 2-26

R

Radio 3-2
Radio Data Systems (RDS) 3-5
Rear Seat Entertainment (RSE) 3-15
Route Overview 2-7
Route Preview 2-9

S

Screen Setup 1-2
Setting Preset Stations 3-3
Suspend Guidance 2-6
Symbols 2-22

V

Vehicle Positioning 2-25
Voice Volume 2-7
Volume 1-3

X

XM™ Options 3-8
XM™ Radio Satellite Service
(USA Only) 3-8

NOTES

NOTES

NOTES

NOTES